AMENDMENTS TO THE CLAIMS:

1. (Previously Presented) A method of hand-off for a mobile terminal from a first access point to a second access point in a wireless local area network (WLAN), the method comprising:

measuring in a mobile terminal signal to noise ratio (SNR) of first RF signals received from the first access point;

if the measured SNR of the first RF signals exceeds a first threshold, measuring SNR of RF signals received from a plurality of candidate access points in a roaming candidate list stored on the mobile terminal;

receiving from the first access point the roaming candidate list identifying the plurality of candidate access points in the WLAN;

determining from measured SNRs of the candidate access points whether any of the measured SNR exceed a second threshold, and if so, identifying those candidate access points in a new association list;

selecting one of the candidate access points in the new association list; and attempting to associate the mobile terminal to the selected candidate access point.

2. (Previously Presented) The method in accordance with Claim 1 further comprising: associating the mobile terminal to the first access point in the WLAN.

3. (Previously Presented) A mobile terminal operable for wireless connection to one or more access points, including a first access point, in a wireless local area network (WLAN), the mobile terminal comprising:

means for measuring signal to noise ratio (SNR) of first RF signals received from the first access point;

if the measured SNR of the first RF signals exceeds a first threshold, means for measuring SNR of RF signals received from each of a plurality of candidate access points in a roaming candidate list;

means for receiving from the first access point the roaming candidate list identifying the plurality of candidate access points in the WLAN;

means for determining from measured SNRs of the candidate access points whether any of the measured SNR exceed a second threshold, and if so, identifying those candidate access points in a new association list;

means for selecting one of the candidate access points in the new association list; and means for attempting to associate the mobile device to the selected candidate access point.

4. (Previously Presented) The mobile terminal in accordance with Claim 3 further comprising: means for associating the mobile terminal to the first access point in the WLAN.

5. (Previously Presented) A state machine for use by a mobile terminal in a wireless area

network, the state machine comprising:

a first state in which the mobile terminal is associated with a first access point in the network

and signal to noise ratio (SNR) of first RF signals received from the first access point are measured;

a second state in which SNR of RF signals received from a plurality of candidate access

points in a roaming candidate list are measured and it is determined from measured SNRs of the

candidate access points whether any of the measured SNRs exceeds a second threshold, and if so,

identifying those candidate access points in a new association list, the state machine transitioning

from the first state to the second if the measured SNR of the first RF signals exceeds a first

threshold;

a third state in which one of the candidate access points in the new association list is selected

and an attempt is made to associate the mobile terminal to the selected candidate access point, the

state machine transitioning from the second state to the third state if there is at least one candidate

access point in the new association list; and

wherein the roaming candidate list identifying the plurality of candidate access points in the

WLAN is received from the first access point.

6. (Original) The state machine in accordance with Claim 5 further comprising:

a fourth state in which a plurality of channels associated with a plurality of access points are

scanned to determine SNRs for each of the plurality of access points, one of the plurality of access

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points is selected and the mobile terminal attempts to associate to the selected access point, the state

machine transitioning from the fourth state to the first state when the mobile terminal associates with

the selected access point.

7. (Previously Presented) A mobile terminal for communicating with one or more access points, including a first access point, in a wireless local area network (WLAN), the device comprising:

a processor;

a transceiver coupled to the processor;

an antenna coupled to the transceiver for receiving and transmitting RF signals from and to the one or more access points in the WLAN; and

wherein the processor is operable for:

measuring signal to noise ratio (SNR) of first RF signals received from the first access point,

if the measured SNR of the first RF signals exceeds a first threshold, measuring SNR of RF signals received from each of a plurality of candidate access points in a roaming candidate list stored in the mobile terminal,

receiving from the first access point the roaming candidate list identifying the plurality of candidate access points in the WLAN,

determining from measured SNRs of the candidate access points whether any of the measured SNR exceed a second threshold, and if so, identifying those candidate access points in a new association list,

selecting one of the candidate access points in the new association list, and attempting to associate the mobile device to the selected candidate access point.

- 8. (Previously Presented) The mobile terminal in accordance with Claim 7 wherein the processor is further operable for:
 - associating the mobile terminal to the first access point in the WLAN.

9. (Previously Presented) A wireless local area network (WLAN), the WLAN comprising:
a plurality of sets of access points operable for communicating wirelessly with one or more
remote client devices, each set of access points defines a cell having a predefined communication

a plurality of switches communicatively coupled to access points; and

coverage area within the WLAN;

wherein the communication coverage area of each defined cell is less than about 1000 square feet and the access points in a first cell are operable for transmitting a roaming candidate list to a mobile device associated with one of the access points in the first cell, the list identifying one or more neighborhood access points.